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ABSTRACT

Test performance of a representative sample of 35,291 high school students tested on Form 5 of the Armed Services Vocational Aptitude Battery (ASVAB) is summarized. Separate weighted normative tables are provided by subtest, aptitude composite, grade and sex. This research is furnished as a supplement to the ASVAB Counselor's Manual (DOD 1304.12X, July 1976) and will serve as the ASVAB computer normative base for students tested beginning 1 October 1976. Tables contained in the report replace all preexisting ASVAB norms. Percentile tables in the present report are designed for primary use by high school counselors as an interpretative guide, as a supplemental reference to the individual student/counselor printout of test scores, and as look-up tables for plotting individual student nomographs. A more complete description of sampling methods, weighting approaches and statistical analyses of these representative normative data will be later distributed. (Author/MV)

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TECHNICAL RESEARCH NOTE 75-6

REPRESENTATIVE NORMATIVE TABLES

FOR THE

ARMED SERVICES VOCATIONAL APTITUDE BATTERY

(FORM 5)

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FORT SHERIDAN, ILLINOIS 60037

SEPTEMBER 1976

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Technical Research Notes distributed by the Military Enlistment Processing Command are designed for primary use and reference by high school counselors and other personnel involved in the use and interpretation of the Armed Services Vocational Aptitude Battery (ASVAB). This Technical Research Note was developed as an integral supplement to the ASVAB Counselor's Manual (DOD 1304.12X, July 1976) and as a counselor aid to student understanding and use of the ASVAB Counselor/Student Printout (DOD Form 1304.12P, January 1976).

This interim report was based on tables submitted by J.W.K. International, 7617 Little River Turnpike, Annandale, VA 22003, under contract F41609-75-R-0013, with the Personnel Research Division, Air Force Human Resources Laboratory (AFSC), Lackland Air Force Base, TX, as contract monitor.

This report has been reviewed and cleared for open publication and/or public release. There is no objection to unlimited distribution of the report to the public at large, or by DDC to the National Technical Information Service (NTIS).

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This interim Technical Research Note summarizes test performance of a representative sample of 35,291 high school students tested on Form 5 of the Armed Services Vocational Aptitude Battery (ASVAB). Separate weighted normative tables are provided by subtest, aptitude composite, grade and sex. This research is furnished as a supplement to the ASVAB Counselor's Manual (DOD 1304.12X, July 1976) and will serve as the ASVAB computer normative base for students tested beginning 1 October 1976. Tables contained in the report replace all preexisting ASVAB norms.

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20. ABSTRACT (CONTINUED)

Percentile tables in the present report are designed for primary use by high school counselors as an interpretative guide, as a supplemental reference to the individual student/counselor printout of test scores and as look-up tables for plotting individual student nomographs. A more complete description of sampling methods, weighting approaches and statistical analyses of these representative normative data will be later distributed through a MEPCOM Technical Research Report.

PREFACE

Data contained in the tables of this Technical Research Note summarize test results for 35,291 high school students tested on Form 5 of the Armed Services Vocational Aptitude Battery (ASVAB) in the spring of 1976. Work was performed under Contract No. F41609-75-C-0044, USAF/AFSC, Personnel Research Division, Air Force Human Resources Laboratory, Lackland Air Force Base, Texas.

The normative tables reported in this study were designed as an integral supplement to the ASVAB Counselor's Manual (DOD 1304.12X, July 1976) and the Counselor/Student ASVAB Score Sheet (DOD Form 1304.12P, January 1976).

The final report was submitted by J.W.K. International, 7617 Little River Turnpike, Annandale, Virginia 22003. Dr. Robert Adkins was the principal investigator.

The Military Enlistment Processing Command is indebted to all participating high school counselors, students and administrative personnel.

SUMMARY

This interim Technical Research Note summarizes test performance of a representative sample of 35,291 high school students tested on Form 5 of the Armed Services Vocational Aptitude Battery (ASVAB). Separate weighted normative tables are provided by subtest, aptitude composite, grade and sex. This research is furnished as a supplement to the ASVAB Counselor's Manual (DOD 1304.12X, July 1976) and will serve as the ASVAB computer normative base for students tested beginning 1 October 1976. Tables contained in the report replace all preexisting ASVAB norms.

Percentile tables in the present report are designed for primary use by high school counselors as an interpretative guide, as a supplemental reference to the individual student/counselor printout of test scores, and as look-up tables for plotting individual student nomographs. A more complete description of sampling methods, weighting approaches and statistical analyses of these representative normative data will be later distributed through a MEPCOM Technical Research Report.

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REPRESENTATIVE NORMATIVE TABLES FOR THE ARMED SERVICES VOCATIONAL APTITUDE BATTERY (ASVAB-5)

I. INTRODUCTION

The purpose of this study was to administer Form 5 of the Armed Services Vocational Aptitude Battery (ASVAB-5) to a representative national sample of secondary school students, and to norm and standardize the results of the administration. Form 5 of the ASVAB was introduced as the standard joint services instrument for use in the Department of Defense High School Testing Program in July of 1976. Two equivalent forms of the battery (Forms 6 and 7) were implemented in January of 1976 as the common service recruit selection and classification battery.

Computation of ASVAB subtest and composite percentiles for reporting to counselors and students as appearing on "Your ASVAB Results" (DOD Form 1304.12P, Jan 76) is based solely on the Tables appearing in this Technical Research Note. Percentiles shown on the printout are computed from the data shown in Tables 24 through 41 of this report; grade and sex percentiles shown in Tables 18 through 23 are to be used for plotting individual nomographs on the bottom half of the student ASVAB score sheet. Data summarized in the Tables contained in this study are designed to be used in conjunction with the ASVAB student/counselor printout of test results and the ASVAB Counselor's Manual (DOD 1394.12X, July 1976). In fact, statistics shown in Table 5 of the current study are to be substituted for means and standard deviations shown in Tables 10 and 11 of the July 1976 edition of the ASVAB Counselor's Manual. As empirical norms become accumulated on students tested with ASVAB-5 during school year 1976-77, updated percentile conversion tables will also be published in the form of a technical research note for use supplemental to the ASVAB Counselor's Manual. ASVAB subtests are combined as shown in Table 1 to compute the six composite scores. The only scoring formula used is Rights only.

Table 1

ASVAB COMPOSITE FORMULAS

COMPOSITE	SUBTESTS
(EL) Electronic/Electrical	(EI) Electronic Information + (AR) Arithmetic Reasoning
(CO) Communications	(AR) Arithmetic Reasoning + (MC) Mechanical Comprehension + (SP) Spatial Perception
(GT) General/Technical	(AR) Arithmetic Reasoning + (WK) Word Knowledge
(MM) Motor Mechanical	(MC) Mechanical Comprehension + (AI) Automotive Information + (MK) Math Knowledge
(GM) General Mechanical	(SP) Spatial Perception + (SI) Shop Information + (AR) Arithmetic Reasoning
(CL) Clerical/Administrative	(WK) Word Knowledge + (AD) Attention to Detail + (NO) Numerical Operations

II. METHOD OF SAMPLING

The sampling universe applied by the Contractor was the Office of Civil Rights directory of schools reporting as of the beginning of school year 1972-73, in compliance with Title VI of the Civil Rights Act of 1964. This directory contains reported information on the racial/ethnic composition of pupils and fulltime classroom teachers in 8,056 school districts in the Continental United States including Alaska and the District of Columbia.

The first sampling objective was to draw three schools from each of the strata defined by the intersection of the following four criteria:

(1) Zip Code Area:

Ten strata defined by the values of the first digit of the zip code (0-8)

(2) School Size:

Size 1: 0-500 pupils
Size 2: 501-1000 pupils
Size 3: Over 1000 pupils

(3) Grade Span:

Span 1: Grade 10-12, Grade 11-12, and Grade 12 schools
Span 2: Grade 7-12, Grade 8-12, and Grade 9-12 schools

(4) Percent Black Enrollment:

Group A: 9-20% Black enrollment
Group B: 21-40% Black enrollment
Group C: 41-60% Black enrollment
Group D: 61-80% Black enrollment
Group E: 81-100% Black enrollment

The sampling procedure selected all schools within strata containing less than four schools; and random selection of three schools within strata containing more than three schools. Using this approach, a target sample list of 633 schools was identified, from which a final list of 169 schools was randomly selected to be contacted for voluntary participation in the study. Out of the sampling list of 169 schools, a total of 56 schools agreed to participate, distributed by Zip Code Size and Percent Black Enrollment as shown in Table 2.

Table 2

SAMPLE OF SCHOOLS BY ZIP CODE, SIZE, AND PERCENT BLACK ENROLLMENT (N = 56)

	Zip Codes										
	0	1	2	3	4	5	6	7	8	9	Totals
Total Schools	6	6	6	6	6	6	5	6	4	5	56
Subtotals by											
Size 1 (0-500)	4	4	4	4	4	2	3	4	1	3	33
Size 2 (501-1000)	1	1	1	1	1	1	1	1	2	1	11
Size 3 (over 1000)	1	1	1	1	1	3	1	1	1	1	12
Percent Black Enrollment											
0-20	1	2	1	2	1	2	1	1	1	0	12
21-40	1	1	1	1	2	1	2	2	1	1	13
41-60	2	1	2	1	1	1	1	1	1	2	13
61-80	1	1	1	1	1	1	1	1	1	1	10
81-100	1	1	1	1	1	1	0	1	0	1	8

III. DATA COLLECTION

Staff members of the contracting agency arranged for testing each school, with test administrators furnished either by the contractor or the military services. Participating students were required to have parental approval prior to taking the test, and a copy of the appropriate Privacy Act Notification Statement was furnished to each examinee and his/her parents or guardians.

Identification of student race or cultural group affiliation was voluntary, in compliance with requirements of the Privacy Act. This item on the answer sheet was completed by 99% of all participating students. Out of a total of 36,852 students actually tested, 35,291 had complete records suitable for manual and machine edit. Analysis of the rejected answer sheets did not reveal any systematic bias that would affect the assumptions of randomness. Distribution of the final sample of students in the normative tables by Zip Code area is shown in Table 3. A summary of sample sizes by grade and sex is shown in Table 4.

Table 3

SAMPLE OF SCHOOLS*[1]
TOTAL STUDENTS BY ZIP CODE (N = 35,291)

Zip Code	Students Sampled
0	3194
1	3099
2	3847
3	3807
4	3370
5	5141
6	3223
7	3219
8	3268
9	3123
Total	35,291

*[1]Of the total 35,291 sample of students, 17,934 were males, 17,357 females. The number of blacks was 5,293; 2,689 males, 2,604 females.

Individual student results -- raw score and percentile equivalents -- for each composite and subtest were reported to the schools tested.

Table 4

TOTAL SAMPLE SIZES BY GRADE AND SEX (N = 35,291)

GRADE	MALE	FEMALE	TOTAL
9th	4368	4297	8665
10th	4641	4420	8061
11th	4482	4305	8787
12th	4443	4335	8778
TOTAL	17,934	17,357	35,291

IV. RESULTS (ASVAB REFERENCE TABLES)

The complete array of subtest and composite means and standard deviations, broken out by grade and sex, are shown in the matrix in Table 5. It is to be noted that both means and standard deviations shown for 9th graders are sharply depressed in contrast to statistics reported for "upperclassmen." Counselors are cautioned from relying extensively on ASVAB results for use against Freshmen populations. Ninth grade test results should be used only with the aid of local norms; validity data do not yet exist to support extensive dependence on ASVAB results for students at the 9th grade and lower. Since ASVAB evolved out of common military service selection and classification test batteries geared to the national mobilization population (ages 17 through 24), it is not surprising that limited variance is experienced when the test is administered below the 10th grade level.

Various reference tables in this study are:

Tables 6 through 17: Show raw score to percentile conversions, by grade and sex, for each of the 12 subtests contained in ASVAB-5.

Tables 18 through 23: Show raw score to percentile conversions, by grade and sex, for each of the six ASVAB composites. Data contained in these tables are to be used for computation of individual student profiles on the blank bottom portion of the student/counselor printout of test results. Composite raw scores are computed simply from addition of the subtest scores that make up that composite (refer to Table 1).

Tables 24 through 35: Overall subtest raw score to percentile conversions for the total sample, minus 9th graders (N = 26,626).

Tables 36 through 41: Raw score to percentile conversions on the six ASVAB composite, computed on the total sample, minus 9th graders. *The data in these tables are those used by the central DOD Test Scoring Facility to compute composite percentiles reported on the printout of student/counselor results.*

V. INTERPRETATION

The ASVAB summary tables reported in this study are not self-interpreting, in that the manner in which a test score is reported to a student represents a descriptive rather than an absolute indicator of aptitude performance.

Percentile tables do indicate levels of achievement to known samples of students who constitute the representative normative population. As is the case with most large, nation-wide standardized test batteries, interpretation of ASVAB against locally developed and maintained test norms specific to individual schools is highly encouraged. It is at the local level that student test data can most effectively be compared against other career counseling aids, such as actual classroom performance, outside activities, and similar non-cognitive factors — all of which are essential to the individual counseling and guidance process.

Occupational placement and vocational counseling are most validly accomplished on the basis of the results of several measurements in combination, rather than on the score from a single scale (or subtest). The underlying rationale is that most occupations or post-secondary training situations involve multiple combinations of aptitudes, interests and abilities; that is, they are factorially complex, involving the interaction of several types of learning and environmental experiences. It is also emphasized that the initial conceptualization in formulating ASVAB (Bayroff & Fuchs, 1970) assumed that optimum validity for the battery would be best achieved through combination of subtests into composites. For these reasons, it is the ASVAB composite that possesses maximum validity for student counseling; and, in turn, normative tables for the composites as computed in this study have the most useful basis for interpretation. It is the composite which is reported to the student on the ASVAB score

sheet; and the occupational/training groupings associated with each ASVAB composite on the reverse side of the score sheet are those areas where actual ASVAB validity data have been accumulated. Informed use of both sets of data, combined with specific occupational information as contained in the Military/Civilian Occupational Source Book or the Dictionary of Occupational Titles (DOT), constitutes a usable data basis for individual student career counseling.

As additional empirical norms become available for students tested during school year 1976-77, they will also be published as a supplemental technical research note to the ASVAB Counselor's Manual. These empirical norms, used in conjunction with the representative norms contained in this study, are intended to be used together to provide the broadest possible interpretative base for local ASVAB usage.

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Bayroff, A.G., J. Fuchs, E.T., The Armed Services Vocational Aptitude Battery (Form 1). Technical Research Report 1611. Arlington, VA: February 1970.

Table 5. Means and Standard Deviations
Parts 1-12 and Six Composites ASVAB-5 by Grade and Sex

	9th		10th		11th		12th		
Part	M	F	M	F	M	F	M	F	
1	7.0	6.4	8.0	7.1	8.5	7.2	9.5	7.4	Mean
GI	2.5	2.2	2.5	2.1	2.4	2.1	2.4	2.1	SD
2	24.8	30.8	27.3	31.4	29.8	33.4	32.1	33.1	Mean
NO	11.9	12.4	10.3	11.0	10.3	10.8	10.4	10.5	SD
3	14.7	16.9	15.0	16.9	15.7	17.8	15.9	17.0	Mean
AD	5.2	6.0	4.9	5.0	5.0	5.3	4.8	5.0	SD
4	10.5	10.9	13.7	14.0	15.9	14.9	18.8	17.5	Mean
WK	5.2	5.0	6.0	5.9	6.3	6.3	6.3	6.8	SD
5	7.6	7.5	9.1	8.9	10.2	9.4	11.9	9.9	Mean
AR	2.8	2.6	3.5	3.2	4.1	3.4	4.1	4.0	SD
6	7.8	7.4	9.1	8.8	10.7	9.2	11.7	9.8	Mean
SP	3.7	3.1	4.2	3.8	4.5	3.9	4.6	3.9	SD
7	7.1	7.6	9.4	10.3	11.1	10.9	12.5	11.4	Mean
MK	3.6	3.8	4.8	4.4	4.9	4.5	4.7	4.9	SD
8	11.0	10.2	13.0	11.9	14.6	12.0	17.1	13.0	Mean
EI	4.6	3.6	5.1	3.8	5.4	4.0	5.6	4.3	SD
9	6.1	5.2	8.2	6.3	9.3	6.3	10.3	6.8	Mean
MC	2.9	2.4	3.9	2.7	4.0	2.7	4.4	3.4	SD
10	6.8	7.0	8.7	8.5	9.6	8.5	11.1	9.5	Mean
GS	3.2	2.8	3.7	3.2	4.0	3.2	4.1	3.5	SD
11	6.8	6.5	9.5	7.4	10.6	7.8	12.3	8.3	Mean
SI	3.2	2.7	4.2	2.6	4.3	3.0	4.3	3.3	SD
12	5.3	4.5	6.7	5.1	7.6	5.1	9.3	5.1	Mean
AI	3.1	2.3	3.6	2.2	3.8	2.4	4.6	2.6	SD
C*	18.7	17.7	22.1	20.8	24.8	21.4	28.5	22.8	Mean
EL	6.1	5.0	7.7	6.1	8.2	6.3	9.0	7.2	SD
	21.6	20.1	26.4	23.9	30.1	24.8	33.7	26.5	Mean
CO	7.1	5.9	9.4	7.5	10.4	8.1	11.1	9.2	SD

*Composite

(Continued)

Table 5 (Continued)

Part	9th M	9th F	10th M	10th F	11th M	11th F	12th M	12th F	
	18.2	18.3	22.8	22.9	26.1	24.3	30.5	27.4	Mean
GT	6.9	6.6	8.6	8.1	9.2	8.5	9.2	9.7	SD
	18.5	17.3	24.2	21.7	28.0	22.3	32.1	23.3	Mean
MM	7.4	6.0	10.5	6.9	10.6	7.4	11.1	8.7	SD
	22.8	21.3	27.8	25.1	31.6	26.4	35.7	27.9	Mean
GM	7.5	6.2	9.6	7.2	10.2	8.0	10.5	8.5	SD
	50.0	58.4	56.0	62.4	61.8	66.4	66.8	67.6	Mean
CL	17.1	17.0	15.5	16.1	16.5	17.0	16.6	17.2	SD
	4368	4297	4641	4420	4482	4305	4443	4335	N

Table 6. ASVAB-5 Conversion Table
Raw Scores to Percentiles (N = 35,291)

Part 1 - General Information

Raw	9th		10th		11th		12th	
Score	M	F	M	F	M	F	M	F
00	01	01	01	01	01	01	01	01
01	02	01	01	01	01	01	01	01
02	04	03	01	02	01	01	01	01
03	09	09	03	05	02	02	01	04
04	17	19	07	12	05	12	02	09
05	27	34	15	23	10	23	05	16
06	42	50	27	40	17	37	11	31
07	57	67	43	56	33	55	19	49
08	70	82	61	72	51	74	31	69
09	83	94	73	89	65	87	46	85
10	91	97	84	96	79	94	65	94
11	98	99	92	99	90	98	78	97
12	99	99	96	99	96	99	89	99
13	99	99	99	99	99	99	97	99
14	99	99	99	99	99	99	99	99
15	99	99	99	99	99	99	99	99
N	4368	4297	4641	4420	4482	4305	4443	4335

Table 7. ASVAB-5 Conversion Table
Raw Scores to Percentiles (N = 35,291)

Part 2 - Numerical Operations

Raw	9th		10th		11th		12th	
Score	M	F	M	F	M	F	M	F
00	01	01	01	01	01	01	01	01
01	01	01	01	01	01	01	01	01
02	01	01	01	01	01	01	01	01
03	01	01	01	01	01	01	01	01
04	02	01	01	01	01	01	01	01
05	03	01	01	01	01	01	01	01
06	04	01	01	01	01	01	01	01
07	05	02	02	02	01	01	01	01
08	06	02	03	02	01	01	01	01
09	08	02	04	02	02	01	01	01
10	09	03	05	03	02	01	01	01
11	12	04	06	03	02	01	02	02
12	15	05	06	04	03	02	03	03
13	18	07	08	05	04	02	04	04
14	20	09	09	06	05	03	05	04
15	23	11	11	06	07	04	06	05
16	26	14	14	09	10	05	07	06
17	29	16	17	10	13	07	08	07
18	33	18	20	11	16	08	09	08
19	38	21	23	12	17	10	11	10
20	40	25	27	14	19	12	13	12
21	45	27	29	17	23	16	16	14
22	49	29	32	22	27	20	19	16
23	53	32	36	25	29	22	21	18
24	56	34	41	30	32	22	26	23
25	59	37	46	32	35	25	29	28
26	61	41	51	36	38	29	32	30
27	64	43	53	40	43	31	34	32
28	67	47	56	44	47	33	37	34
29	70	50	60	46	52	39	41	39
30	73	54	66	49	56	43	47	43

(Continued)

Table 7 (Continued)

Raw Score	9th		10th		11th		12th	
	M	F	M	F	M	F	M	F
31	75	56	68	53	60	48	51	46
32	76	58	71	57	63	52	53	49
33	77	60	74	60	68	54	56	52
34	79	63	79	62	70	57	59	54
35	80	65	81	65	73	59	63	59
36	81	66	83	68	75	61	67	61
37	81	68	84	70	76	63	71	64
38	83	69	86	71	77	65	73	68
39	84	70	87	74	78	66	76	69
40	85	71	88	75	79	68	77	71
41	86	72	89	76	81	70	79	74
42	87	74	90	79	84	71	81	76
43	87	75	91	82	86	74	82	78
44	89	76	92	83	88	76	83	81
45	92	78	92	85	90	80	86	84
46	94	82	94	87	93	83	87	86
47	95	87	95	89	95	87	89	89
48	97	91	97	93	97	91	92	95
49	99	96	98	97	99	95	96	97
50	99	99	99	99	99	99	99	99
N	4368	4297	4641	4420	4482	4305	4443	4335

Table 8. ASVAB-5 Conversion Table
Raw Scores to Percentiles (N = 35,291)

Part 3 - Attention to Detail

Raw	9th		10th		11th		12th	
Score	M	F	M	F	M	F	M	F
00	01	01	01	01	01	01	01	01
01	01	01	01	01	01	01	01	01
02	01	01	01	01	01	01	01	01
03	01	01	01	01	01	01	01	01
04	01	01	01	01	01	01	01	01
05	02	01	02	01	02	01	01	01
06	03	02	02	01	03	01	01	01
07	06	04	03	01	04	02	02	01
08	09	06	08	03	05	02	04	03
09	15	09	11	05	09	04	05	04
10	19	15	17	08	13	06	08	06
11	29	19	24	13	18	09	15	11
12	38	24	29	18	25	13	23	17
13	45	30	38	26	35	20	31	24
14	51	40	51	34	43	28	43	35
15	61	48	59	42	52	35	54	41
16	70	55	67	51	61	45	61	52
17	75	61	71	59	68	54	69	62
18	81	66	78	67	73	62	76	68
19	83	71	83	74	79	68	80	73
20	86	74	87	77	84	72	84	79
21	88	77	91	81	87	75	87	82
22	91	78	93	85	90	80	90	86
23	93	81	94	88	92	83	92	88
24	95	85	95	90	94	87	94	90
25	95	88	96	93	96	89	95	92
26	96	91	98	95	97	91	96	94
27	98	94	98	97	98	94	97	96
28	99	96	99	99	99	97	98	98
29	99	98	99	99	99	99	99	99
30	99	99	99	99	99	99	99	99
N	4368	4297	4641	4420	4482	4305	4443	4335

Table 9. ASVAB-5 Conversion Table
Raw Scores to Percentiles (N = 35,291)

Part 4 - Word Knowledge

Raw	9th		10th		11th		12th	
Score	M	F	M	F	M	F	M	F
00	01	01	01	01	01	01	01	01
01	02	01	01	01	01	01	01	01
02	03	02	01	01	01	01	01	01
03	05	04	03	01	01	01	01	01
04	08	07	05	02	01	03	01	02
05	17	12	07	04	03	03	02	03
06	23	21	10	07	06	07	04	06
07	28	27	14	12	10	10	05	08
08	38	36	19	18	14	14	07	12
09	50	43	27	25	18	19	09	16
10	57	49	33	34	22	27	10	20
11	64	60	41	38	29	36	15	24
12	70	67	46	45	35	42	21	28
13	75	73	55	53	40	46	23	30
14	79	78	59	58	45	53	26	33
15	82	83	63	64	50	57	29	36
16	87	87	68	69	55	64	33	41
17	89	89	73	72	59	68	40	47
18	91	91	79	77	65	73	46	52
19	92	93	84	81	71	76	50	56
20	95	96	86	85	75	80	55	63
21	96	97	88	88	78	83	63	68
22	98	98	91	89	80	85	68	73
23	99	98	93	91	86	88	73	79
24	99	99	95	93	90	91	79	83
25	99	99	96	95	93	93	85	87
26	99	99	98	97	95	95	89	91
27	99	99	98	98	97	97	93	95
28	99	99	99	99	98	98	96	97
29	99	99	99	99	99	99	98	99
30	99	99	99	99	99	99	99	99
N	4368	4297	4641	4420	4482	4305	4443	4335

Table 10. ASVAB-5 Conversion Table
Raw Scores to Percentiles (N = 35,291)

Part 5 - Arithmetic Reasoning

Raw	9th		10th		11th		12th	
Score	M	F	M	F	M	F	M	F
00	01	01	01	01	01	01	01	01
01	01	01	01	01	01	01	01	01
02	02	01	01	01	01	01	01	01
03	04	02	01	01	01	01	01	03
04	11	09	04	05	05	03	03	07
05	21	21	11	11	10	10	05	13
06	34	38	25	21	18	22	09	20
07	50	54	37	38	30	34	16	30
08	65	72	52	50	40	48	22	38
09	78	83	64	65	50	57	31	51
10	88	89	73	76	60	68	42	62
11	92	92	78	82	68	75	49	70
12	94	94	82	88	73	81	59	75
13	98	98	89	92	78	85	66	82
14	98	99	91	93	82	91	72	85
15	99	99	93	95	87	94	78	90
16	99	99	94	96	91	97	84	93
17	99	99	96	97	94	98	88	95
18	99	99	98	99	96	99	93	97
19	99	99	99	99	99	99	97	98
20	99	99	99	99	99	99	99	99
N	4368	4297	4641	4420	4482	4305	4443	4335

Table 11. ASVAB-5 Conversion Table
Raw Scores to Percentiles (N = 35,291)

Part 6 - Space Perception

Raw	9th		10th		11th		12th	
Score	M	F	M	F	M	F	M	F
00	01	01	01	01	01	01	01	01
01	02	02	01	01	01	01	01	01
02	03	05	02	01	01	02	02	02
03	07	08	07	04	04	04	03	04
04	16	15	12	11	08	08	07	07
05	29	27	20	21	12	18	11	10
06	39	41	29	31	21	29	15	21
07	50	55	38	44	29	40	19	33
08	65	67	48	53	36	50	27	43
09	74	78	59	62	43	57	33	53
10	81	84	68	71	52	64	40	61
11	86	91	74	79	59	71	46	68
12	91	95	80	85	66	81	55	74
13	92	96	85	88	71	85	62	79
14	94	98	88	91	77	89	69	85
15	95	98	90	94	82	93	77	91
16	96	99	93	95	88	95	82	95
17	97	99	95	96	92	97	87	98
18	99	99	98	98	94	99	92	99
19	99	99	99	99	98	99	97	99
20	99	99	99	99	99	99	99	99
N	4368	4297	4641	4420	4482	4305	4443	4335

Table 12. ASVAB-5 Conversion Table
Raw Scores to Percentiles (N = 35,291)

Part 7 - Mathematics Knowledge

Raw Score	9th		10th		11th		12th	
	M	F	M	F	M	F	M	F
00	02	02	01	01	01	01	01	01
01	03	03	01	01	01	01	01	01
02	08	08	03	01	02	02	01	02
03	15	13	08	04	03	03	02	05
04	24	19	14	09	08	06	06	09
05	35	30	26	14	15	13	08	14
06	50	43	37	21	22	21	11	20
07	61	54	44	30	30	26	19	26
08	69	63	51	30	36	33	23	33
09	76	73	55	48	42	39	30	38
10	83	79	62	57	47	49	37	42
11	87	85	67	61	52	55	43	48
12	91	89	72	69	60	62	48	57
13	94	93	76	73	64	69	54	63
14	96	95	82	78	71	77	62	68
15	98	96	86	83	77	82	69	75
16	99	98	91	90	82	87	75	82
17	99	99	93	95	87	91	81	88
18	99	99	96	98	92	95	87	93
19	99	99	98	99	98	99	93	98
20	99	99	99	99	99	99	99	99
N	4368	4297	4641	4420	4482	4305	4443	4335

Table 13. ASVAB-5 Conversion Table
Raw Scores to Percentiles (N = 35,291)

Part 8 - Electronics Information

Raw	9th		10th		11th		12th	
Score	M	F	M	F	M	F	M	F
00	01	01	01	01	01	01	01	01
01	02	02	01	01	01	01	01	01
02	02	02	01	01	01	01	01	01
03	03	04	01	01	01	01	01	02
04	05	05	02	01	01	02	01	02
05	07	08	04	03	01	04	02	03
06	14	12	07	06	03	08	02	04
07	20	19	12	10	09	12	05	09
08	29	31	18	17	12	17	06	13
09	41	42	26	25	15	24	08	20
10	50	53	37	36	21	37	12	29
11	60	64	44	47	32	46	16	36
12	68	76	52	61	42	60	20	46
13	74	84	59	72	48	67	27	58
14	81	90	66	77	55	77	35	66
15	84	93	70	85	60	82	43	74
16	88	96	76	89	67	87	50	81
17	92	98	81	92	73	91	55	85
18	94	99	84	94	76	94	60	89
19	94	99	88	96	80	96	66	93
20	97	99	90	98	85	97	70	96
21	98	99	93	99	88	98	76	97
22	98	99	94	99	90	99	81	99
23	99	99	97	99	92	99	84	99
24	99	99	98	99	94	99	89	99
25	99	99	99	99	96	99	92	99
26	99	99	99	99	98	99	95	99
27	99	99	99	99	99	99	97	99
28	99	99	99	99	99	99	99	99
29	99	99	99	99	99	99	99	99
30	99	99	99	99	99	99	99	99
N	4368	4297	4641	4420	4482	4305	4443	4335

Table 14. ASVAB-5 Conversion Table
Raw Scores to Percentiles (N = 35,291)

Part 9 - Mechnical Comprehension

Raw	9th		10th		11th		12th	
Score	M	F	M	F	M	F	M	F
00	01	02	01	01	01	01	01	02
01	02	05	01	02	01	01	01	04
02	06	11	03	06	01	06	02	09
03	17	23	08	14	03	15	06	15
04	29	38	16	26	10	27	09	23
05	48	56	25	43	18	41	14	36
06	62	72	37	59	27	56	22	51
07	74	83	50	70	38	72	31	63
08	82	93	61	82	49	84	39	73
09	88	95	70	89	60	89	49	83
10	93	99	78	93	66	93	55	87
11	96	99	81	95	72	96	61	91
12	97	99	84	97	77	97	68	93
13	98	99	89	99	82	98	73	95
14	98	99	91	99	87	99	79	96
15	99	99	94	99	91	99	85	98
16	99	99	96	99	94	99	89	99
17	99	99	98	99	96	99	94	99
18	99	99	99	99	99	99	98	99
19	99	99	99	99	99	99	99	99
20	99	99	99	99	99	99	99	99
N	4368	4297	4641	4420	4482	4305	4443	4335

Table 15. ASVAB-5 Conversion Table
Raw Scores to Percentiles (N = 35,291)

Part 10 - General Science

Raw	9th		10th		11th		12th	
Score	M	F	M	F	M	F	M	F
00	02	01	01	01	01	01	01	01
01	04	02	01	01	02	01	01	01
02	07	05	02	01	04	02	01	02
03	14	09	07	03	05	05	03	04
04	25	16	14	09	09	10	05	07
05	34	28	22	17	16	18	10	11
06	47	45	31	26	24	30	14	21
07	61	58	38	40	33	40	19	28
08	74	71	50	54	42	52	27	41
09	83	82	59	68	53	64	38	51
10	88	89	71	76	61	73	45	60
11	92	93	80	83	67	81	55	68
12	95	97	86	89	73	88	63	79
13	97	98	89	91	80	94	72	87
14	98	99	94	94	87	96	78	92
15	99	99	95	97	93	98	85	95
16	99	99	97	98	95	99	90	98
17	99	99	98	99	98	99	92	99
18	99	99	99	99	99	99	97	99
19	99	99	99	99	99	99	99	99
20	99	99	99	99	99	99	99	99
N	4368	4297	4641	4420	4482	4305	4443	4335

Table 16. ASVAB-5 Conversion Table
Raw Scores to Percentiles (N = 35,291)

Part 11 - Shop Information

Raw	9th		10th		11th		12th	
Score	M	F	M	F	M	F	M	F
00	02	02	01	01	01	01	01	01
01	04	03	02	01	02	01	01	02
02	07	07	04	02	03	04	02	04
03	14	13	07	07	05	09	04	07
04	25	25	12	14	08	13	06	14
05	34	35	18	25	12	22	07	20
06	47	50	26	36	17	31	09	29
07	61	64	34	50	23	47	14	39
08	74	77	42	66	31	62	19	52
09	83	87	50	79	39	72	24	64
10	88	94	60	89	50	83	31	74
11	92	96	70	95	58	91	42	85
12	95	98	76	98	65	94	51	91
13	97	99	81	99	74	97	59	96
14	98	99	87	99	81	98	66	97
15	99	99	91	99	86	99	74	98
16	99	99	94	99	91	99	82	99
17	99	99	96	99	94	99	88	99
18	99	99	99	99	97	99	92	99
19	99	99	99	99	99	99	97	99
20	99	99	99	99	99	99	99	99
N	4368	4297	4641	4420	4482	4305	4443	4335

Table 17. ASVA-5 Conversion Table
Raw Scores to Percentiles (N = 35,291)

Part 12 - Automotive Information

Raw	9th		10th		11th		12th	
Score	M	F	M	F	M	F	M	F
00	04	04	02	01	02	02	01	04
01	09	10	05	03	04	08	02	09
02	18	19	08	10	06	13	05	18
03	27	33	16	24	12	23	09	27
04	39	50	31	42	22	38	17	41
05	55	68	41	59	31	58	23	56
06	71	82	54	75	41	73	30	72
07	84	91	66	86	57	84	37	82
08	89	96	73	94	65	93	46	92
09	92	98	80	98	73	98	55	97
10	95	99	85	99	82	99	64	98
11	96	99	88	99	85	99	69	99
12	97	99	93	99	88	99	75	99
13	98	99	96	99	92	99	81	99
14	98	99	97	99	95	99	86	99
15	99	99	98	99	96	99	88	99
16	99	99	98	99	97	99	91	99
17	99	99	99	99	98	99	94	99
18	99	99	99	99	99	99	97	99
19	99	99	99	99	99	99	99	99
20	99	99	99	99	99	99	99	99
N	4368	4297	4641	4420	4482	4305	4443	4335

Table 18. ASVAB-5 Conversion Table
Raw Scores to Percentiles (N = 35,291)

Composite - Electronics/Electrical

Raw	9th		10th		11th		12th	
Score	M	F	M	F	M	F	M	F
00	01	01	01	01	01	01	01	01
01	01	01	01	01	01	01	01	01
02	01	01	01	01	01	01	01	01
03	01	01	01	01	01	01	01	01
04	01	01	01	01	01	01	01	01
05	01	01	01	01	01	01	01	01
06	02	02	01	01	01	01	01	01
07	02	02	01	01	01	01	01	01
08	03	03	01	01	01	01	01	01
09	03	04	01	01	01	01	01	01
10	06	05	02	01	01	02	02	02
11	08	07	05	03	01	04	02	03
12	12	10	07	05	03	07	03	05
13	15	16	09	08	04	10	05	08
14	23	24	14	13	08	13	07	11
15	33	32	20	18	11	16	08	14
16	39	41	24	23	14	20	09	20
17	46	53	30	29	17	27	11	24
18	55	62	38	38	22	35	13	28
19	63	70	44	48	31	42	15	34
20	67	75	49	54	38	49	18	41
21	71	81	52	61	42	55	21	45
22	76	86	57	66	47	62	25	52
23	82	89	64	71	52	67	32	56
24	86	91	70	77	57	72	36	62
25	88	93	73	83	61	77	40	68
26	89	95	76	86	64	80	43	73
27	92	97	78	88	68	85	48	76
28	94	98	80	91	71	88	52	79
29	94	99	83	93	73	89	56	84
30	96	99	85	94	75	91	61	85

(Continued)

Table 18 (Continued)

Raw Score	9th		10th		11th		12th	
	M	F	M	F	M	F	M	F
31	96	99	86	94	77	92	65	88
32	96	99	88	95	79	94	68	90
33	98	99	89	96	81	95	71	92
34	98	99	91	96	83	97	73	94
35	99	99	93	97	87	97	76	95
36	99	99	95	97	89	97	79	96
37	99	99	96	98	90	98	83	96
38	99	99	97	98	91	99	86	97
39	99	99	97	99	93	99	88	98
40	99	99	98	99	95	99	89	99
41	99	99	98	99	97	99	91	99
42	99	99	99	99	99	99	93	99
43	99	99	99	99	99	99	94	99
44	99	99	99	99	99	99	95	99
45	99	99	99	99	99	99	97	99
46	99	99	99	99	99	99	98	99
47	99	99	99	99	99	99	99	99
48	99	99	99	99	99	99	99	99
49	99	99	99	99	99	99	99	99
50	99	99	99	99	99	99	99	99
N	4368	4297	4641	4420	4482	4305	4443	4335

Table 19. ASVAB-5 Conversion Table
Raw Scores to Percentiles (N = 35,291)

Composite - Communications

Raw	9th		10th		11th		12th	
Score	M	F	M	F	M	F	M	F
00	01	01	01	01	01	01	01	01
01	01	01	01	01	01	01	01	01
02	01	01	01	01	01	01	01	01
03	01	01	01	01	01	01	01	01
04	01	01	01	01	01	01	01	01
05	01	01	01	01	01	01	01	01
06	01	01	01	01	01	01	01	01
07	01	02	01	01	01	01	01	01
08	01	02	01	01	01	01	01	01
09	02	02	01	01	01	01	01	01
10	03	03	01	01	01	01	01	01
11	04	04	01	01	01	01	01	02
12	06	06	01	03	01	01	02	03
13	08	08	02	05	01	03	02	05
14	11	11	04	06	02	06	03	07
15	14	19	09	09	04	10	04	08
16	20	24	14	13	07	14	06	10
17	28	32	17	16	09	16	07	14
18	37	39	20	20	12	22	08	17
19	45	49	25	27	17	29	09	24
20	52	57	29	34	20	35	12	28
21	58	66	36	43	24	41	16	33
22	62	72	39	50	28	46	18	39
23	66	76	43	57	32	51	20	45
24	70	81	49	61	34	58	23	47
25	74	85	56	66	37	61	26	53
26	79	88	61	72	43	64	28	58
27	83	91	64	75	50	68	31	61
28	87	92	67	79	52	71	33	64
29	89	95	70	82	55	74	37	68
30	91	96	73	85	58	78	41	73

(Continued)

Table 19 (Continued)

Raw Score	9th M	9th F	10th M	10th F	11th M	11th F	12th M	12th F
31	92	97	75	87	60	81	46	75
32	92	98	77	88	62	83	50	78
33	94	98	79	89	64	85	52	80
34	94	98	81	91	66	86	57	82
35	95	99	82	92	69	87	59	83
36	96	99	83	92	72	89	61	85
37	97	99	84	93	76	91	62	87
38	97	99	86	94	79	93	65	88
39	98	99	88	94	81	94	68	89
40	98	99	89	96	82	95	71	91
41	99	99	90	97	83	97	73	92
42	99	99	91	98	85	97	76	93
43	99	99	93	98	87	98	77	94
44	99	99	94	99	88	98	80	95
45	99	99	95	99	90	99	82	96
46	99	99	96	99	91	99	84	96
47	99	99	97	99	93	99	86	97
48	99	99	98	99	94	99	88	97
49	99	99	98	99	95	99	91	98
50	99	99	99	99	96	99	94	98
51	99	99	99	99	97	99	94	99
52	99	99	99	99	98	99	95	99
53	99	99	99	99	98	99	96	99
54	99	99	99	99	99	99	97	99
55	99	99	99	99	99	99	98	99
56	99	99	99	99	99	99	99	99
57	99	99	99	99	99	99	99	99
58	99	99	99	99	99	99	99	99
59	99	99	99	99	99	99	99	99
60	99	99	99	99	99	99	99	99
N	4368	4297	4641	4420	4482	4305	4443	4335

Table 20. ASVAB-5 Conversion Table
Raw Scores to Percentiles (N = 35,291)

Composite - General/Technical

Raw	9th		10th		11th		12th	
Score	M	F	M	F	M	F	M	F
00	01	01	01	01	01	01	01	01
01	01	01	01	01	01	01	01	01
02	01	01	01	01	01	01	01	01
03	01	01	01	01	01	01	01	01
04	01	01	01	01	01	01	01	01
05	02	01	01	01	01	01	01	01
06	02	02	01	01	01	01	01	01
07	03	02	01	01	01	01	01	01
08	04	03	01	01	01	01	01	01
09	07	05	02	01	01	02	01	01
10	10	08	03	01	01	03	01	01
11	13	12	06	04	01	05	01	02
12	18	17	08	07	03	06	01	05
13	26	22	11	10	05	07	02	07
14	33	29	14	14	09	09	03	10
15	39	38	20	17	13	11	05	13
16	45	44	24	23	16	17	08	16
17	52	51	29	29	21	22	11	18
18	59	56	38	33	25	29	13	23
19	66	63	44	38	30	34	14	25
20	73	69	48	44	33	38	16	29
21	75	74	53	50	38	44	20	32
22	77	77	56	55	41	49	23	33
23	80	82	60	59	45	54	26	37
24	83	85	64	65	49	57	28	42
25	84	88	66	69	53	59	31	43
26	87	91	69	72	57	63	34	45
27	88	92	74	75	59	67	38	49
28	90	92	76	77	61	71	40	53
29	91	93	78	80	63	74	43	58
30	94	93	80	82	65	77	46	62

(Continued)

Table 20 (Continued)

Raw Score	9th		10th		11th		12th	
	M	F	M	F	M	F	M	F
31	95	95	83	84	69	80	51	66
32	96	96	85	86	72	82	55	69
33	97	97	87	89	76	84	60	74
34	97	97	88	90	79	86	65	76
35	99	98	90	92	81	88	69	78
36	99	98	92	93	83	89	73	81
37	99	99	93	94	86	91	76	83
38	99	99	95	95	87	93	78	86
39	99	99	95	95	89	95	80	88
40	99	99	96	96	91	96	84	90
41	99	99	97	96	93	97	87	92
42	99	99	97	97	95	98	89	93
43	99	99	98	98	97	98	92	94
44	99	99	99	99	98	99	93	95
45	99	99	99	99	99	99	96	96
46	99	99	99	99	99	99	97	97
47	99	99	99	99	99	99	99	99
48	99	99	99	99	99	99	99	99
49	99	99	99	99	99	99	99	99
50	99	99	99	99	99	99	99	99
N	4368	4297	4641	4420	4482	4305	4443	4335

Table 21. ASVAB-5 Conversion Table
Raw Scores to Percentiles (N = 35,291)

Composite - Motor/Mechanical

Raw	9th		10th		11th		12th	
Score	M	F	M	F	M	F	M	F
00	01	01	01	01	01	01	01	01
01	01	01	01	01	01	01	01	01
02	01	01	01	01	01	01	01	01
03	01	01	01	01	01	01	01	01
04	01	02	01	01	01	01	01	01
05	02	02	01	01	01	01	01	01
06	03	02	01	01	01	01	01	01
07	03	04	02	01	01	02	01	01
08	04	05	03	01	01	02	01	03
09	06	08	04	02	01	03	01	04
10	09	11	06	02	01	03	01	06
11	12	12	07	03	02	04	01	08
12	18	18	09	05	03	06	02	10
13	23	21	13	09	04	08	02	14
14	29	28	17	14	06	11	04	18
15	37	35	21	19	09	15	06	20
16	44	46	25	24	12	22	08	23
17	49	55	29	30	17	27	09	27
18	57	63	33	36	22	35	11	32
19	64	69	37	42	27	40	14	36
20	68	74	42	48	32	44	16	40
21	73	79	47	56	35	50	19	45
22	76	85	50	59	38	55	21	48
23	82	89	54	63	40	61	25	52
24	85	90	58	68	43	64	29	55
25	86	93	62	73	46	69	32	59
26	88	95	65	77	49	73	35	65
27	90	97	69	80	52	77	38	68
28	92	97	71	84	56	80	41	71
29	93	98	74	87	59	84	44	75
30	94	98	76	90	62	87	48	79

(Continued)

Table 21 (Continued)

Raw Score	9th		10th		11th		12th	
	M	F	M	F	M	F	M	F
31	95	99	78	91	65	89	51	83
32	95	99	79	92	69	91	56	86
33	96	99	81	94	71	93	58	87
34	96	99	83	96	73	95	61	90
35	96	99	84	97	77	97	62	91
36	97	99	86	98	78	97	64	94
37	97	99	87	98	80	98	66	95
38	98	99	88	99	82	98	69	95
39	98	99	89	99	83	98	72	97
40	98	99	91	99	86	98	75	98
41	99	99	92	99	87	98	78	98
42	99	99	93	99	89	99	80	98
43	99	99	94	99	89	99	83	98
44	99	99	94	99	91	99	85	99
45	99	99	95	99	92	99	87	99
46	99	99	96	99	93	99	88	99
47	99	99	97	99	94	99	90	99
48	99	99	98	99	96	99	92	99
49	99	99	98	99	97	99	93	99
50	99	99	99	99	98	99	94	99
51	99	99	99	99	98	99	95	99
52	99	99	99	99	99	99	96	99
53	99	99	99	99	99	99	97	99
54	99	99	99	99	99	99	98	99
55	99	99	99	99	99	99	98	99
56	99	99	99	99	99	99	99	99
57	99	99	99	99	99	99	99	99
58	99	99	99	99	99	99	99	99
59	99	99	99	99	99	99	99	99
60	99	99	99	99	99	99	99	99
N	4368	4297	4641	4420	4482	4305	4443	4335

Table 22. ASVAB-5 Conversion Table
Raw Scores to Percentiles (N = 35,291)

Composite - General Mechanical

Raw	9th		10th		11th		12th	
Score	M	F	M	F	M	F	M	F
00	01	01	01	01	01	01	01	01
01	01	01	01	01	01	01	01	01
02	01	01	01	01	01	01	01	01
03	01	01	01	01	01	01	01	01
04	01	01	01	01	01	01	01	01
05	01	01	01	01	01	01	01	01
06	01	01	01	01	01	01	01	01
07	01	01	01	01	01	01	01	01
08	02	02	01	01	01	01	01	01
09	02	03	01	01	01	01	01	01
10	03	03	01	01	01	01	01	01
11	04	04	01	01	01	01	01	01
12	05	05	02	02	01	01	01	02
13	06	06	03	03	02	01	02	04
14	09	08	04	04	02	03	03	05
15	13	13	07	05	04	06	03	05
16	18	18	11	07	04	08	04	07
17	23	24	15	11	06	12	05	08
18	28	31	18	14	07	16	05	12
19	36	39	20	20	09	20	06	16
20	42	49	24	27	12	23	07	20
21	48	57	28	34	16	28	08	23
22	53	66	31	39	19	35	10	27
23	57	70	36	46	22	43	12	31
24	63	75	41	54	26	49	14	37
25	68	79	44	59	33	54	17	41
26	73	83	50	65	38	57	19	45
27	78	86	56	69	42	60	20	51
28	80	89	60	74	45	65	23	55
29	85	91	64	79	48	68	28	60
30	86	94	66	81	51	70	34	65

(Continued)

Table 22 (Continued)

Raw Score	9th		10th		11th		12th	
	M	F	M	F	M	F	M	F
31	88	95	69	84	55	75	37	68
32	90	96	71	86	58	78	40	73
33	92	97	74	89	61	80	46	75
34	93	97	75	90	64	82	50	80
35	94	98	78	91	67	85	52	83
36	95	98	80	92	69	87	55	85
37	95	99	82	93	72	90	57	87
38	96	99	84	94	74	92	59	90
39	97	99	86	95	76	93	63	91
40	97	99	88	96	78	95	67	93
41	98	99	89	97	80	97	70	94
42	99	99	91	98	82	97	73	95
43	99	99	93	98	84	98	75	95
44	99	99	94	99	87	98	77	97
45	99	99	95	99	89	98	79	97
46	99	99	96	99	90	98	82	97
47	99	99	97	99	92	99	85	98
48	99	99	97	99	94	99	87	98
49	99	99	98	99	95	99	89	98
50	99	99	98	99	95	99	91	99
51	99	99	99	99	96	99	93	99
52	99	99	99	99	97	99	95	99
53	99	99	99	99	99	99	96	99
54	99	99	99	99	99	99	97	99
55	99	99	99	99	99	99	98	99
56	99	99	99	99	99	99	99	99
57	99	99	99	99	99	99	99	99
58	99	99	99	99	99	99	99	99
59	99	99	99	99	99	99	99	99
60	99	99	99	99	99	99	99	99
N	4368	4297	4641	4420	4482	4305	4443	4335

Table 23. ASVAB-5 Convernsion Table
Raw Scores to Percentiles (N = 35,291)

Composite - Clerical Administrative

Raw	9th		10th		11th		12th	
Score	M	F	M	F	M	F	M	F
00	01	01	01	01	01	01	01	01
01	01	01	01	01	01	01	01	01
02	01	01	01	01	01	01	01	01
03	01	01	01	01	01	01	01	01
04	01	01	01	01	01	01	01	01
05	01	01	01	01	01	01	01	01
06	01	01	01	01	01	01	01	01
07	01	01	01	01	01	01	01	01
08	01	01	01	01	01	01	01	01
09	01	01	01	01	01	01	01	01
10	01	01	01	01	01	01	01	01
11	01	01	01	01	01	01	01	01
12	01	01	01	01	01	01	01	01
13	01	01	01	01	01	01	01	01
14	01	01	01	01	01	01	01	01
15	02	01	01	01	01	01	01	01
16	02	01	01	01	01	01	01	01
17	03	01	01	01	01	01	01	01
18	03	01	01	01	01	01	01	01
19	03	01	01	01	01	01	01	01
20	04	01	01	01	01	01	01	01
21	04	01	02	01	01	01	01	01
22	04	02	02	01	01	01	01	01
23	05	02	02	01	01	01	01	01
24	05	02	02	01	01	01	01	01
25	05	02	03	01	01	01	01	01
26	06	03	03	01	01	01	01	01
27	08	03	03	01	01	01	01	02
28	10	03	04	01	01	01	01	02
29	11	04	04	02	02	01	01	02
30	13	04	04	02	02	01	02	03

(Continued)

Table 23 (Continued)

Raw Score	9th		10th		11th		12th	
	M	F	M	F	M	F	M	F
31	14	06	04	02	02	01	02	03
32	15	08	05	03	02	02	02	03
33	16	09	06	03	03	02	02	04
34	18	09	07	03	03	02	03	04
35	20	11	08	04	04	02	03	04
36	21	13	10	04	05	03	04	05
37	24	13	11	05	06	03	04	05
38	26	14	13	07	07	03	05	05
39	28	17	15	08	08	04	05	06
40	30	18	15	09	10	05	05	06
41	32	19	17	10	12	06	06	07
42	35	21	19	11	13	08	06	08
43	37	23	21	13	15	10	07	09
44	39	24	22	14	16	10	08	09
45	41	25	25	16	18	11	09	10
46	43	26	29	18	19	12	11	12
47	46	29	31	19	20	14	13	13
48	48	30	33	21	21	15	14	14
49	50	33	36	22	23	17	15	15
50	53	34	38	24	25	19	16	16
51	56	37	40	25	27	21	17	17
52	59	39	41	28	29	23	19	18
53	61	43	43	30	32	25	21	20
54	63	46	44	32	34	27	23	22
55	65	46	47	34	36	29	25	24
56	68	48	50	37	38	32	27	26
57	69	50	53	39	41	33	29	28
58	70	52	57	42	43	34	31	30
59	72	55	59	44	45	36	33	32
60	74	56	60	47	46	38	35	34

(Continued)

Table 23 (Continued)

Raw Score	9th		10th		11th		12th	
	M	F	M	F	M	F	M	F
61	76	58	63	50	48	41	37	36
62	77	59	66	52	52	45	39	37
63	79	60	69	54	54	47	41	39
64	80	61	71	56	57	49	43	41
65	81	63	74	58	59	51	45	42
66	82	64	77	59	62	51	48	44
67	84	66	78	61	65	52	50	46
68	85	67	79	64	68	53	53	48
69	86	70	80	66	69	55	56	50
70	88	72	82	67	71	57	58	52
71	89	74	83	70	73	59	61	55
72	90	75	86	73	75	61	65	57
73	90	78	87	74	78	63	67	59
74	91	78	88	75	79	65	70	62
75	92	79	89	76	81	67	73	64
76	92	80	90	77	82	69	75	66
77	93	81	92	79	82	70	76	69
78	93	84	93	80	83	72	77	72
79	94	85	93	82	84	73	78	75
80	95	88	93	83	84	75	79	77
81	95	90	94	85	85	77	81	79
82	96	91	95	87	86	80	82	81
83	97	92	96	90	88	82	83	83
84	97	92	97	91	89	84	84	84
85	97	94	97	93	90	86	85	86
86	98	95	98	94	91	87	86	88
87	98	96	98	95	92	89	88	89
88	99	96	98	96	94	90	89	90
89	99	97	99	97	96	91	90	91
90	99	98	99	99	96	92	91	91

(Continued)

Table 23 (Continued)

Raw Score	9th		10th		11th		12th	
	M	F	M	F	M	F	M	F
91	99	98	99	99	97	94	92	92
92	99	99	99	99	97	95	93	93
93	99	99	99	99	97	96	94	94
94	99	99	99	99	98	96	95	95
95	99	99	99	99	98	97	96	96
96	99	99	99	99	99	97	97	97
97	99	99	99	99	99	98	98	97
98	99	99	99	99	99	99	98	98
99	99	99	99	99	99	99	99	99
100	99	99	99	99	99	99	99	99
101	99	99	99	99	99	99	99	99
102	99	99	99	99	99	99	99	99
103	99	99	99	99	99	99	99	99
104	99	99	99	99	99	99	99	99
105	99	99	99	99	99	99	99	99
106	99	99	99	99	99	99	99	99
107	99	99	99	99	99	99	99	99
108	99	99	99	99	99	99	99	99
109	99	99	99	99	99	99	99	99
110	99	99	99	99	99	99	99	99
N	4368	4297	4641	4420	4482	4305	4443	4335

TABLE 24: Raw Score to Percentile Conversions; Total Norms (10th thru 12th Grade)

Part 1 - General Information

RAW SCORE	%ile	RAW SCORE	%ile	RAW SCORE	%ile
00	01	06	27	11	92
01	01	07	42	12	96
02	01	08	59	13	99
03	03	09	74	14	99
04	08				
05	15	10	85	15	99

TABLE 25: Raw Score to Percentile Conversions; Total Norms (10th thru 12th Grade)

Part 2 - Numerical Operations

RAW SCORE	%ile	RAW SCORE	%ile	RAW SCORE	%ile
00	01	17	10	34	64
01	01	18	12	35	67
02	01	19	14	36	69
03	01	20	16	37	71
04	01	21	19	38	74
05	01	22	23	39	75
06	01	23	25	40	76
07	01	24	29	41	78
08	01	25	33	42	80
09	02	26	36	43	82
10	02	27	39	44	84
11	03	28	42	45	86
12	03	29	46	46	88
13	04	30	51	47	91
14	05	31	54	48	94
15	06	32	58	49	97
16	08	33	61	50	99

TABLE 26: Raw Score to Percentile Conversions; Total Norms (10th thru 12th Grade)

Part 3 - Attention to Detail

RAW SCORE	%ile	RAW SCORE	%ile	RAW SCORE	%ile
00	01	11	15	21	84
01	01	12	21	22	87
02	01	13	29	23	90
03	01	14	39	24	92
04	01	15	47	25	93
05	01	16	56	26	95
06	01	17	64	27	97
07	02	18	71	28	98
08	04	19	76	29	99
09	06	20	81	30	99
10	10				

TABLE 27: Raw Score to Percentile Conversions; Total Norms (10th thru 12th Grade)

Part 4 - Word Knowledge

RAW SCORE	%ile	RAW SCORE	%ile	RAW SCORE	%ile
00	01	11	31	21	78
01	01	12	36	22	81
02	01	13	41	23	85
03	01	14	46	24	88
04	02	15	50	25	92
05	04	16	55	26	94
06	07	17	60	27	96
07	10	18	65	28	98
08	14	19	70	29	99
09	19	20	74	30	99
10	24				

TABLE 28: Raw Score to Percentile Conversions; Total Norms (10th thru 12th Grade)

Part 5 - Arthmetic Reasoning

RAW SCORE	%ile	RAW SCORE	%ile	RAW SCORE	%ile
00	01	07	31	14	86
01	01	08	42	15	89
02	01	09	53	16	93
03	01	10	63	17	95
04	04	11	70	18	97
05	10	12	76	19	99
06	19	13	82	20	99

TABLE 29: Raw Score to Percentile Conversions; Total Norms (10th thru 12th Grade)

Part 6 - Space Perception

RAW SCORE	%ile	RAW SCORE	%ile	RAW SCORE	%ile
00	01	07	34	14	83
01	01	08	43	15	88
02	02	09	51	16	91
03	04	10	59	17	94
04	08	11	66	18	97
05	15	12	73	19	99
06	24	13	78	20	99

TABLE 30: Raw Score to Percentile Conversions; Total Norms (10th thru 12th Grade)

Part 7 - Mathematics Knowledge

RAW SCORE	%ile	RAW SCORE	%ile	RAW SCORE	%ile
00	01	07	29	14	73
01	01	08	36	15	79
02	02	09	42	16	85
03	04	10	49	17	89
04	09	11	54	18	94
05	15	12	61	19	98
06	22	13	67	20	99

TABLE 31: Raw Score to Percentile Conversions; Total Norms (10th thru 12th Grade)

Part 8 - Electronics Information

RAW SCORE	%ile	RAW SCORE	%ile	RAW SCORE	%ile
00	01	11	37	21	92
01	01	12	47	22	94
02	01	13	55	23	95
03	01	14	62	24	97
04	01	15	69	25	98
05	03	16	75	26	99
06	05	17	79	27	99
07	09	18	83	28	99
08	14	19	86	29	99
09	20	20	89	30	99
10	29				

TABLE 32: Raw Score to Percentile Conversions; Total Norms (10th thru 12th Grade)

Part 9 - Mechanical Comprehension

RAW SCORE	%ile	RAW SCORE	%ile	RAW SCORE	%ile
00	01	07	54	14	92
01	02	08	64	15	94
02	04	09	73	16	96
03	10	10	78	17	98
04	18	11	82	18	99
05	29	12	86	19	99
06	42	13	89	20	99

TABLE 33: Raw Score to Percentile Conversions; Total Norms (10th thru 12th Grade)

Part 10:- General Science

RAW SCORE	%ile	RAW SCORE	%ile	RAW SCORE	%ile
00	01	07	33	14	90
01	01	08	45	15	94
02	02	09	55	16	96
03	05	10	65	17	98
04	09	11	72	18	99
05	16	12	79	19	99
06	24	13	85	20	99

TABLE 34: Raw Score to Percentile Conversions; Total Norms (10th thru 12th Grade)

Part 11 - Shop Information

RAW SCORE	%ile	RAW SCORE	%ile	RAW SCORE	%ile
00	01	07	34	14	88
01	01	08	45	15	91
02	03	09	54	16	94
03	06	10	64	17	96
04	11	11	73	18	98
05	17	12	79	19	99
06	25	13	84	20	99

TABLE 35: Raw Score to Percentile Conversions; Total Norms (10th thru 12th Grade)

Part 12 - Automative Information

RAW SCORE	%ile	RAW SCORE	%ile	RAW SCORE	%ile
00	02	07	69	14	96
01	05	08	77	15	97
02	10	09	83	16	98
03	18	10	88	17	99
04	32	11	90	18	99
05	44	12	92	19	99
06	57	13	95	20	99

TABLE 36: Composite Raw Score to Percentile Conversions; Total Norms (10th thru 12th Grade)

Electronics/Electrical Composite

RAW SCORE	%ile	RAW SCORE	%ile	RAW SCORE	%ile
00	01	17	23	34	89
01	01	18	29	35	91
02	01	19	35	36	92
03	01	20	41	37	94
04	01	21	46	38	95
05	01	22	51	39	96
06	01	23	57	40	97
07	01	24	62	41	98
08	01	25	67	42	99
09	01	26	70	43	99
10	02	27	74	44	99
11	03	28	77	45	99
12	05	29	80	46	99
13	07	30	82	47	99
14	11	31	84	48	99
15	14	32	85	49	99
16	18	33	87	50	99

TABLE 37: Composite Raw Score to Percentile Conversions; Total Norms (10th thru 12th Grade)

Communications Composite

RAW SCORE	%ile	RAW SCORE	%ile	RAW SCORE	%ile
00	01	21	32	41	89
01	01	22	37	42	90
02	01	23	41	43	91
03	01	24	45	44	92
04	01	25	50	45	93
05	01	26	54	46	94
06	01	27	58	47	95
07	01	28	61	48	96
08	01	29	64	49	97
09	01	30	68	50	98
10	01	31	71	51	98
11	01	32	73	52	99
12	02	33	75	53	99
13	03	34	77	54	99
14	05	35	79	55	99
15	07	36	80	56	99
16	10	37	82	57	99
17	13	38	84	58	99
18	17	39	86	59	99
19	22	40	87	60	99
20	27				

TABLE 38: Composite Raw Score to Percentile Conversions; Total Norms (10th thru 12th Grade)

General/Technical Composite

RAW SCORE	%ile	RAW SCORE	%ile	RAW SCORE	%ile
00	01	17	22	34	81
01	01	18	27	35	83
02	01	19	31	36	85
03	01	20	35	37	87
04	01	21	39	38	89
05	01	22	43	39	91
06	01	23	47	40	92
07	01	24	51	41	94
08	01	25	53	42	95
09	01	26	57	43	96
10	02	27	60	44	97
11	03	28	63	45	98
12	05	29	66	46	99
13	07	30	69	47	99
14	10	31	72	48	99
15	13	32	75	49	99
16	17	33	78	50	99

TABLE 39: Composite Raw Score to Percentile Conversions; Total Norms (10th thru 12th Grade)

Motor Mechanical Composite

RAW SCORE	%ile	RAW SCORE	%ile	RAW SCORE	%ile
00	01	21	42	41	92
01	01	22	45	42	93
02	01	23	49	43	94
03	01	24	53	44	94
04	01	25	57	45	95
05	01	26	61	46	96
06	01	27	64	47	97
07	01	28	67	48	97
08	02	29	71	49	98
09	02	30	73	50	98
10	03	31	76	51	99
11	04	32	79	52	99
12	06	33	81	53	99
13	08	34	83	54	99
14	11	35	85	55	99
15	15	36	86	56	99
16	19	37	87	57	99
17	23	38	88	58	99
18	28	39	90	59	99
19	32	40	91	60	99
20	37				

TABLE 40: Composite Raw Score to Percentile Conversions; Total Norms (10th thru 12th Grade)

General Mechanical Composite

RAW SCORE	%ile	RAW SCORE	%ile	RAW SCORE	%ile
00	01	21	23	41	88
01	01	22	27	42	89
02	01	23	31	43	80
03	01	24	37	44	92
04	01	25	41	45	93
50	01	26	46	46	94
06	01	27	50	47	95
07	01	28	54	48	96
08	01	29	58	49	97
09	01	30	61	50	98
10	01	31	64	51	98
11	01	32	68	52	99
12	01	33	71	53	99
13	02	34	73	54	99
14	04	35	76	55	99
15	05	36	78	56	99
16	07	37	80	57	99
17	09	38	82	58	99
18	12	39	84	59	99
19	15	40	86	60	99
20	19				

TABLE 41: Composite Raw Score to Percentile Conversions; Total Norms (10th thru 12th Grade)

Clerical/Administrative Composite

RAW SCORE	%ile	RAW SCORE	%ile	RAW SCORE	%i
		37	06	75	75
00	01	38	07	76	77
01	01	39	08	77	78
02	01	40	09	78	80
03	01	41	10	79	81
04	01	42	11	80	82
05	01	43	12	81	84
06	01	44	13	82	85
07	01	45	15	83	87
08	01	46	17	84	88
09	01	47	18	85	90
10	01	48	20	86	91
11	01	49	21	87	92
12	01	50	23	88	93
13	01	51	25	89	94
14	01	52	27	90	95
15	01	53	28	91	95
16	01	54	31	92	96
17	01	55	33	93	97
18	01	56	35	94	97
19	01	57	37	95	98
20	01	58	40	96	98
21	01	59	41	97	98
22	01	60	44	98	99
23	01	61	46	99	99
24	01	62	49	100	99
25	01	63	51	101	99
26	01	64	53	102	99
27	02	65	55	103	99
28	02	66	57	104	99
29	02	67	59	105	99
30	02	68	61	106	99
31	02	69	63	107	99
32	03	70	65	108	99
33	03	71	67	109	99
34	04	72	70	110	99
35	04	73	72		
36	05	74	73		

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